

Rec'd PCT/PTO 22 MAR 2002

<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED / ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>		P67745US0 10/088097
INTERNATIONAL APPLICATION NO <b>PCT/FR00/02711</b>	INTERNATIONAL FILING DATE <b>29 September 2000</b>	PRIORITY DATE CLAIMED <b>29 September 1999</b>
TITLE OF INVENTION <b>FERTILISER PRODUCT AND METHOD FOR OBTAINING SAME</b>		
APPLICANT(S) FOR DO/EO/US <b>Daniel DAVILLER</b>		

**Applicant herein submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information.**

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for Internatl. Preliminary Examination was made by the 19th month from earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A translation of the annexes to the Internatl. Preliminary Examination report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**Items 11. to 16. below concern other document(s) or information included:**

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.  
☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
14. ☐ A substitute specification.
15. ☐ A change of power of attorney and/or address letter.
16. ☒ Other items or information:

International Search Report - EPO  
 First Page of Publication  
 International Preliminary Examination Report - with no annexes

US APPLICATION NO (if known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold; margin-top: 10px;">10/088097</div>		INTERNATIONAL APPLICATION NO <div style="font-weight: bold; margin-top: 10px;">PCT/FR00/02711</div>		ATTORNEY'S DOCKET NUMBER <div style="font-weight: bold; margin-top: 10px;">P67745US0</div>					
17. <input checked="" type="checkbox"/> The following fees are submitted:  <b>Basic National Fee (37 CFR 1.492(a)(1)-(5)):</b> Internatl. prelim. examination fee paid to USPTO (37 CFR 1.492 (a) (1)) ... \$710.00 No international preliminary examination fee paid to USPTO (37 CFR 1.492 (a) (2)) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) ... \$740.00 Neither international preliminary examination fee (37 CFR 1.492 (a) (3)) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO) ..... <b>\$1040.00</b> International preliminary examination fee paid to USPTO (37 CFR 1.492 (a) (4)) and all claims satisfied provisions of PCT Article 33(2)-(4) ..... \$100.00 Search Report prepared by the EPO or JPO (37 CFR 1.492 (a) (5)) ..... <b>\$890.00</b>  <div style="text-align: right;"><b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b></div>				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">CALCULATIONS</th> <th style="width:50%;">PTO USE ONLY</th> </tr> <tr> <td style="height: 100px; vertical-align: bottom;"> <div style="text-align: right; font-weight: bold;">\$ 890.00</div> </td> <td></td> </tr> </table>		CALCULATIONS	PTO USE ONLY	<div style="text-align: right; font-weight: bold;">\$ 890.00</div>	
CALCULATIONS	PTO USE ONLY								
<div style="text-align: right; font-weight: bold;">\$ 890.00</div>									
Surcharge of \$130.00 for furnishing the <b>oath or declaration</b> later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: right;">\$ 130.00</td> <td style="width:50%;"></td> </tr> </table>		\$ 130.00			
\$ 130.00									
<b>Claims</b>	<b>Number Filed</b>	<b>Number Extra</b>	<b>Rate</b>						
Total Claims	8 - 20 =	-0-	x \$18.00	\$					
Independent Claims	1 - 3 =	-0-	x \$84.00	\$					
Multiple Dependent Claim(s) (if applicable)			+ \$280.00	\$					
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$ 1020.00					
Reduction by 1/2 for filing by <b>small entity</b> , if applicable. Verified Small Entity statement must also be filed. (Note 37 CFR 1.9, 1.27, 1.28).				\$					
<b>SUBTOTAL =</b>				\$ 1020.00					
Processing fee of \$130 for furnishing the <b>English translation</b> later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f))				\$					
<b>TOTAL NATIONAL FEE =</b>				\$ 1020.00					
Fee of \$40.00 for recording the enclosed <b>assignment</b> (37 CFR 1.21(h)). Assignment must be accompanied by appropriate cover sheet (37 CFR 3.28, 3.31).				\$					
<b>TOTAL FEES ENCLOSED =</b>				\$ 1020.00					
				Amt. to be refunded:	\$				
				Amt. charged:	\$				

a. ☒ A check in the amount of \$ 1020.00 to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. 06-1358 in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. ☒ The Commissioner is hereby authorized to charge my account any additional fees set forth in §1.492 during the pendency of this application, or credit any overpayment to Deposit Account No. 06-1358. A duplicate copy of this sheet is enclosed.

**SEND ALL CORRESPONDENCE TO:**

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**CUSTOMER NUMBER: 00136**

By *Jonathan L. Scherer*  
**Jonathan L. Scherer**  
 Reg. No. 29,851

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Daniel DAVILLER  
Serial No.: New  
Filing Date: March 22, 2002  
For: FERTILISER PRODUCT AND METHOD FOR OBTAINING SAME

PRELIMINARY AMENDMENT

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to initial examination, please amend the above-identified application as follows:

IN THE SPECIFICATION

On page 1, immediately following the title, please insert the following sentence: --This is a nationalization of PCT/FR00/02711 filed September 29, 2000 and published in French.--

Please incorporate the new Abstract of the Disclosure into the specification, submitted herewith on a separate sheet.

IN THE CLAIMS

Please amend claim 8 as follows:

8. (amended) A method of obtaining a fertiliser product according to claim 1, characterised in that the quantity of each ingredient in the fertiliser is determined and supplemented by a quantity of

a calcium and magnesium ameliorator comprising lime in which the carbon dioxide content is below 4% after which the ameliorator followed by the fertiliser ingredients are conveyed to a metering hopper, the hopper is emptied and the contents thereof are placed in a mixer and the product is recovered from the mixer and bagged.

## REMARKS

The foregoing Preliminary Amendment is requested in order to delete the multiple dependent claims and avoid paying the multiple dependent claims fee.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE."

Early action on the merits is respectfully requested.

Respectfully submitted,

JACOBSON HOLMAN PLLC

By Jonathan L. Scherer  
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Atty. Docket: P67745US0  
Date: March 22, 2002  
JLS/cmf

VERSION WITH MARKINGS TO SHOW CHANGES MADEIN THE CLAIMS

8. (amended) A method of obtaining a fertiliser product according to claim 1 [any of claims 1 to 8], characterised in that the quantity of each ingredient in the fertiliser is determined and supplemented by a quantity of a calcium and magnesium ameliorator comprising lime in which the carbon dioxide content is below 4% after which the ameliorator followed by the fertiliser ingredients are conveyed to a metering hopper, the hopper is emptied and the contents thereof are placed in a mixer and the product is recovered from the mixer and bagged.

## Abstract

The invention concerns a fertiliser product comprising a liming and magnesium material in oxide form associated with a single, multiple nutrient or complete fertiliser selected among the water soluble potassium-, phosphate- and nitrogen-containing fertilisers with a grain size distribution ranging between 2 and 7 mm. The invention is applicable in agriculture.

1/p<sub>1</sub>

WO 01/23325

PCT/FR00/02711

A fertiliser product and a method of making it.

The invention relates to a novel fertiliser product in which calcium and magnesium ameliorators in oxide form are associated with fertilisers chosen for their solubility. The invention also relates to a method of making it.

It will be recalled that an ameliorator is a substance which, when incorporated in the soil, has the effect mainly of improving the physical properties and may also modify the chemical and biological properties thereof. A distinction is usually made between different kinds of ameliorators: calcium and magnesium ameliorators for maintaining or raising the pH and the structure of soil; organic ameliorators for maintaining or raising the proportion of organic matter in the soil; and physical ameliorators for improving the particle size distribution of the soil.

A fertiliser, on the other hand, is an organic or mineral product which provides plants with fertilising substances of direct nutritional use.

At present, a change is occurring in agriculture in that the farmer wishes to reduce the number of applications by supplying the maximum amount of products in a single operation. To date, however, ameliorators are still too often supplied separately from fertilisers.

One aim of the invention, therefore, is to provide a product wherein calcium and magnesium ameliorators in oxide form can be associated with fertilisers chosen for their solubility, such that an ameliorator and a fertiliser are simultaneously supplied to a soil.

Another aim of the invention is to provide a said product which does not form a cloud of dust when used.

The invention also relates to a method of making a said product so as to avoid dust formation when the product is used or made.

Dust formation, during production or use of a substance such as an ameliorator or a fertiliser, is a major disadvantage in that, as a result, constituents of the product are lost and/or are supplied to areas not under cultivation.

These aims, together with others which will appear hereinafter, are achieved by a product which, according to the invention, is characterised in that it comprises a calcium and magnesium ameliorator associated with a single, binary or ternary fertiliser and has a particle size distribution in the range from 2 to 7 mm.



The calcium and magnesium ameliorator comprises lime having a carbon dioxide ( $\text{CO}_2$ ) content below 4%. The product also contains up to 20% by weight of magnesium lime and at least 20% by weight of quicklime ( $\text{CaO}$ )

The fertiliser is chosen from among water-soluble potassium, sulphate and nitrogen fertilisers. More particularly, it can comprise a tri super phosphate, and/or a potassium chloride and/or a diammonium phosphate.

Accordingly the fertiliser comprises ingredients or elements in the form of granulates, preferably

- tri super phosphate (TSP), a phosphate fertiliser containing 45% by weight of  $\text{P}_2\text{O}_5$  in the form of monocalcium phosphate and of recognised solubility in water and ammonium citrate;
- potassium chloride (KCl), a potassium fertiliser containing 60% by weight of  $\text{K}_2\text{O}$  in the form of potassium chloride and also considered soluble in water, and
- diammonium phosphate (DAP), a soluble phosphate fertiliser containing 46% by weight of  $\text{P}_2\text{O}_5$  in the form of  $\text{HPO}_4^-$  (orthophosphoric ion) and 18% nitrogen in ammoniacal form. This form of nitrogen is preferred because of its neutrality in the presence of lime and its high solubility in water

A product in accordance with the invention is constructed by determining the composition by weight of the various constituents, it being understood that the quantity of calcium and magnesium ameliorator makes up the balance per tonne of product.

The calcium and magnesium ameliorator, followed by the other ingredients, are first placed on the edge of a metering hopper such that the particles run along the hopper wall. This prevents a cone forming at the centre of the hopper, and also avoids dust and consequent loss of ameliorator and/or ingredients. The various ingredients and the ameliorator are carried on conveyor belts or, preferably, horizontal vibrating slides. The process is designed to reduce crumbling of supplied fertiliser and thus reduce the production of fine particles, that is 2-7 mm particles of calcium and magnesium ameliorators in oxide form.

Next, the contents of the hopper is emptied on to the end of a conveyor line, the other end of which is situated at a certain distance and height relative to the mouth of a mixer drum whose axis of rotation is at an angle to the horizontal. For example, the distance between the bottom of the drum and the free end of the conveyor line is about 3 m and the height of the slide in the bottom of the drum is

between 1.5 and 1.7 m approx., when the conveyor line is advancing at around 2.95 m/s.

As a further dust- preventing means, a protective product can be sprayed when the mixture is placed in the drum.

Next, the various ingredients and the ameliorator are mixed by rotating the drum in alternate directions, for example at a speed of rotation of about 11.5 rpm for a total of 1.5 minutes.

The drum is emptied and the resulting mixture of granulates is conveyed to a bagging machine.

The end product obtained by the method and in accordance with the invention is novel and gives very promising results after spreading, as can be seen from the following tests.

#### Test no. 1:

On temporary grassland during a first year, a comparison was made between plots given a calcium ameliorator (A), a phospho-potassium fertiliser (B), and a product in accordance with the invention (C) having the various compositions shown in Table 1 hereinafter:

Table 1				
Supplied (units/ha)	N	P	K	CaO
Control	200	-	-	-
A	200	-	-	344
B	200	64	176	-
C	200	64	176	344

Fig. 1 shows the yield per tonne of dry matter from two cuts of grass made during the said first year. As shown by Fig. 1 and Table II summarising the results, the product (C) in accordance with the invention gave a yield somewhat higher than that calculated.

Table II				
	Control	A	B	C
Yield T of dry matter per ha	5.87	6.40	6.76	7.27
% increase relative to control	-	9%	15.2%	23.9%

Test no. 2

On the same temporary grassland, during a second year, a repeat comparison was made between plots newly spread with a calcium ameliorator (A), a phospho-potassium fertiliser (B), and a product (C) in accordance with the invention having compositions identical with those in test no. 1 hereinbefore.

Fig. 2 shows the yield in tonnes of dry matter from two cuts of grass made during the second year. As shown very clearly by the Figure and Table III summarising the results, the product (C) gave a yield much higher than that calculated. There is therefore a synergistic effect when an ameliorator in oxide form and a phospho-potassium fertiliser are supplied in a single product such as that in accordance with the invention.

Table III

	Control	A	B	C
Yield T of dry matter per ha	5.03	5.42	6.13	6.64
% increase relative to the control	-	7.7%	21.9%	32%

All these tests were made by the method of blocks with 4 repetitions.

**Claims:**

1. A fertiliser product, characterised in that it comprises a calcium and magnesium ameliorator containing not more than 20% by weight of magnesium lime and at least 20% by weight of quicklime ( $\text{CaO}$ ) associated with a single, binary or ternary fertiliser and having a particle size distribution in the range from 2 to 7 mm.
2. A fertiliser product according to claim 1, characterised in that the calcium and magnesium ameliorator contains lime having a carbon dioxide ( $\text{CO}_2$ ) content below 4%.
3. A fertiliser product according to claim 1, characterised in that the fertiliser is chosen from among water-soluble potassium, phosphate and nitrogen fertilisers.
4. A fertiliser product according to claim 4, characterised in that the fertiliser can comprise a tri super phosphate and/or a potassium chloride and / or a diammonium phosphate.
5. A fertiliser product according to claim 5, characterised in that the tri super phosphate (TSP) contains 45% by weight of  $\text{P}_2\text{O}_5$  in the form of monocalcium phosphate.
6. A fertiliser product according to claim 5, characterised in that the potassium chloride (KCl) contains 60% by weight of  $\text{K}_2\text{O}$  in the form of potassium chloride.
7. A fertiliser product according to claim 1, characterised in that the diammonium phosphate (DAP) contains 46% by weight of  $\text{P}_2\text{O}_5$  in the form  $\text{HPO}_4^-$  and also contains 18.5 % nitrogen in ammoniacal form.
8. A method of obtaining a fertiliser product according to any of claims 1 to 8, characterised in that the quantity of each ingredient in the fertiliser is determined and supplemented by a quantity of a calcium and magnesium ameliorator comprising lime in which the carbon dioxide content is below 4% after which the ameliorator followed by the fertiliser ingredients are conveyed to a metering hopper, the hopper is emptied and the contents thereof are placed in a mixer and the product is recovered from the mixer and bagged.

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**WO 01/23325 A1**

(51) Classification internationale des brevets<sup>7</sup>: C05D 3/02,  
C05B 1/00

(72) Inventeur; et

(75) Inventeur/Déposant (*pour US seulement*): DAVILLER,  
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(21) Numéro de la demande internationale:

PCT/FR00/02711

(74) Mandataire: HAMMOND, William; Cabinet Hammond,  
33, rue Vaneau, F-75007 Paris (FR).

(22) Date de dépôt international:

29 septembre 2000 (29.09.2000)

(81) États désignés (*national*): ES, PT, US.

(25) Langue de dépôt:

français

(84) États désignés (*régional*): brevet européen (AT, BE, CH,  
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(71) Déposant (*pour tous les États désignés sauf US*): B ET  
C SERVICES, S.A.R.L. [FR/FR]; 15, rue Henri Dagallier,  
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En ce qui concerne les codes à deux lettres et autres abrévia-  
tions, se référer aux "Notes explicatives relatives aux codes et  
abréviations" figurant au début de chaque numéro ordinaire de  
la Gazette du PCT.

(54) Title: FERTILISER PRODUCT AND METHOD FOR OBTAINING SAME

(54) Titre: PRODUIT FERTILISANT ET PROCEDE POUR SON OBTENTION

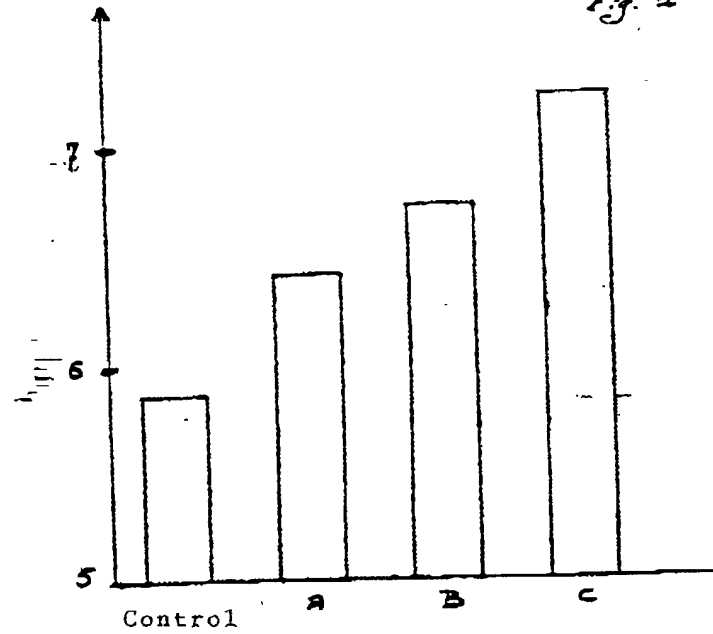
(57) Abstract: The invention concerns a fertiliser product comprising a liming and magnesium material in oxide form associated with a single, multiple nutrient or complete fertiliser selected among the water soluble potassium-, phosphate- and nitrogen-containing fertilisers with a grain size distribution ranging between 2 and 7 mm. The invention is applicable in agriculture.

(57) Abrégé: Produit fertilisant comprenant un amendement calcique et magnésien sous forme oxyde associé à un engrais simple, binaire ou ternaire choisi parmi les engrais potassiques, phosphatés et azotés qui sont solubles dans l'eau, et présentant une granulométrie comprise entre 2 et 7 mm. Application en agriculture.

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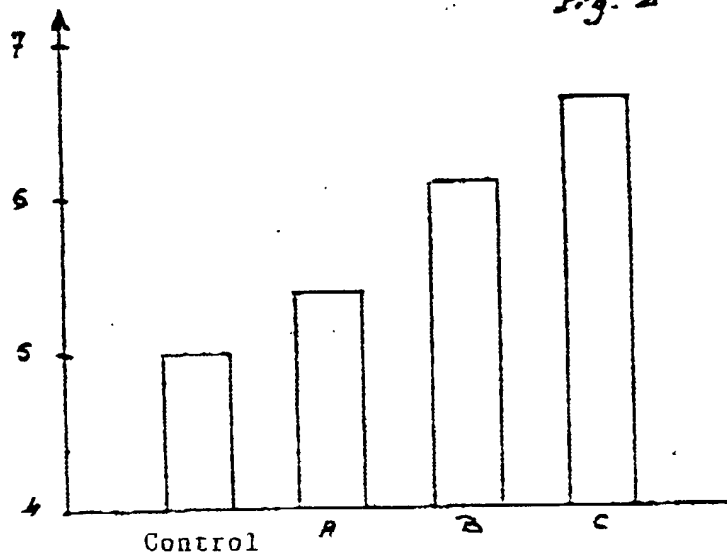
Content of solid matter

Fig. 1



Content of solid matter

Fig. 2



**DECLARATION  
AND POWER OF ATTORNEY  
U.S.A.**

ALL PATENTS, INCLUDING DESIGN  
FOR APPLICATION BASED ON PCT; PARIS CONVENTION;  
NON PRIORITY; OR PROVISIONAL APPLICATIONS

FOR ATTORNEYS' USE ONLY

ATTORNEYS' DOCKET NO.

5674/P67745USO

As a below named inventor, I declare that my residence, post office address and citizenship are stated below next to my name, the information given herein is true, that I believe that I am the original, first and sole inventor (if only one name is listed at 201 below), or an original, first and joint inventor (if plural inventors are named below at 201-203, or on additional sheets attached hereto) of the subject matter which is claimed and for which patent is sought on the invention entitled:

Fertiliser product and method for obtaining same

which is described and claimed in:

☐ the attached specification ☐ PCT International Application No. PCT/FR00/02711 filed 29 September 2000  
☐ the specification in application Serial No. \_\_\_\_\_ filed \_\_\_\_\_

(if applicable) and amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 (a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

99 12145 FRANCE 29 September 1999  
(Number) (Country) (Day/Month/Year Filed)

Priority Claimed

☐ Yes ☐ No

(Number) (Country) (Day/Month/Year Filed)

☐ Yes ☐ No

(Number) (Country) (Day/Month/Year Filed)

☐ Yes ☐ No

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

Application No. \_\_\_\_\_ Filing Date \_\_\_\_\_ Application No. \_\_\_\_\_ Filing Date \_\_\_\_\_

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial No.)

(Filing Date)

(Status: patented, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorneys (Registration No. ) to prosecute this application, receive and act on instructions from my agent, and transact all business in the Patent and Trademark Office connected therewith. HARVEY B. JACOBSON, JR. (20,851); JOHN CLARKE HOLMAN (22,769); MARVIN R. STERN (20,640); ALLEN S. MELSER (27,215); MICHAEL R. SLOBASKY (26,421); JONATHAN L. SCHERER (29,851); IRWIN M. AISENBERG (19,007); WILLIAM E. PLAYER (31,409); YOON S. HAM (45,307) and NATHANIEL A. HUMPHRIES (22,772)

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\*Inventor(s) name must include at least one unabbreviated first or middle name.

201	FULL NAME * OF INVENTOR	FAMILY NAME <u>DAVILLER</u>	GIVEN NAME <u>Daniel</u>	MIDDLE NAME
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	POST OFFICE ADDRESS	POST OFFICE ADDRESS <u>24 rue Veymont</u>	CITY <u>38320 POISAT</u>	STATE OR COUNTRY <u>FRANCE</u> ZIP CODE
202	FULL NAME * OF INVENTOR	FAMILY NAME	GIVEN NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY ZIP CODE
203	FULL NAME * OF INVENTOR	FAMILY NAME	GIVEN NAME	MIDDLE NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY ZIP CODE

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both, under section 1001 of Title 18 of the United States Code; and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon

SIGNATURE OF INVENTOR 201* <u>[Signature]</u>	SIGNATURE OF INVENTOR 202*	SIGNATURE OF INVENTOR 203*
DATE <u>02 avril 2002</u>	DATE	DATE

☐ Additional inventors are named on separately numbered sheets attached hereto.